

Giuseppe Emanuele Lio

Curriculum Vitae et Studiorum

CONTACT

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CURRENT POSITION

- **Ph.D student** at Physics Department – Univ. of Calabria and CNR-Nanotec;

PERSONAL DEVELOPMENT

Physics Department, University of Calabria, Rende - Italy:

MSc Physics – September 2017, Dissertation Title: *“Design and realization of a nano-guided hybrid system to implement a photonic transistor”.*

Université de Technologie de Troyes, LNIO, Troyes - France

Scholarship – April 2017/ July2017: Traineeship at the LNIO (laboratoire de Nanotechnologie et d'instrumentation optique).

Physics Department, University of Calabria, Rende - Italy:

BSc Physics – September 2015, Dissertation Title: *“Plasmoni in materiali “Beyond Graphene”: dalla ricerca fondamentale alle applicazioni nella fotorilevazione nel THz”.*

TEACHING EXPERIENCE

From February to June 2018 **tutor** in the project *“Alternanza scuola-lavoro”*

RESEARCH EXPERIENCE

SCIENTIFIC RESEARCH AREAS OF INTEREST

Quantum Plasmonics
Metamaterials for Bio-Sensing
Switchable / Tunable Photonic systems
Active Plasmonics

Nano-Polymerization driven diffusion processes
Band Gap Materials / Organic Lasers
Self-assembled nanostructured Materials

CONFERENCES PARTICIPATION

- (2018) 104° Congresso Nazionale della Società di Fisica Italiana, Cosenza (Italy)
Oral: “*Design and realization of a nano-guided hybrid system to implement a photonic transistor*”
G.E. Lio, J.B. Madrigal, X. Xu, S. Pierini, C. Coureau, J. Safi, R. Bachelot, R. Caputo, S. Blaize.
- (2018) Plasmonica 2018, Florence (Italy)
Poster: “*Design and realization of a nano-guided hybrid system to implement a photonic transistor*”
G.E. Lio, J.B. Madrigal, X. Xu, S. Pierini, C. Coureau, J. Safi, R. Bachelot, R. Caputo, S. Blaize.
- (2018) International School of Plasmonica and Optics, Cetraro (Cs) (Italy)
Oral: “*Design and realization of a nano-guided hybrid system to implement a photonic transistor*”
G.E. Lio, J.B. Madrigal, X. Xu, S. Pierini, C. Coureau, J. Safi, R. Bachelot, R. Caputo, S. Blaize.
- (2018) Nanoplasm, Cetraro (Cs) (Italy)
Poster: “*Design and realization of a nano-guided hybrid system to implement a photonic transistor*”
G.E. Lio, J.B. Madrigal, X. Xu, S. Pierini, C. Coureau, J. Safi, R. Bachelot, R. Caputo, S. Blaize.

PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. (2018) *ACS Photonics*, 2018, 5 (6), pp 2431–2436, “**Mid-Infrared Plasmonic Excitation in Indium Tin Oxide Microhole Arrays**”, Fausto D’apuzzo, Marco Esposito, Massimo Cuscunà, Alessandro Cannavale, Salvatore Gambino, Giuseppe E. Lio, Antonio De Luca, Giuseppe Gigli, and Stefano Lupi.

LANGUAGES

- Italian - native speaker
- English - intermediate
- French - basic knowledge

REFERENCES

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